

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat $40^{\circ}29'47''$, long $112^{\circ}34'25''$, in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 4 S., R. 6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft upstream from Forest Service Guard Station, 1.7 mi above Wasatch National Forest boundary, 9.2 mi southwest of Grantsville, and 14.8 mi west of Tooele.

DRAINAGE AREA.--4.19 mi 2 . Area at crest-stage gage site, 3.26 mi 2 .

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--WDR UT-83-1: 1982.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,360 ft above sea level, from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

REMARKS.--Records good, except for estimated daily discharges which are fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft 3 /s June 8, 1964, gage height, 2.27 ft; minimum daily discharge, 1.4 ft 3 /s Jan. 5, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft 3 /s and maximum (*):

Date	Time	Discharge (ft 3 /s)	Gage height (ft)	Date	Time	Discharge (ft 3 /s)	Gage height (ft)
May 18	1200	*56	*1.80	June 16	0100	54	1.79
Minimum discharge, 2.4 ft 3 /s March 8.							

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.9	3.3	3.0	3.0	2.8	3.0	6.9	19	35	19	9.0	5.6
2	e3.9	3.3	3.0	4.1	2.8	2.6	6.5	19	36	17	8.3	5.6
3	e3.9	3.3	3.0	5.0	2.8	2.7	6.4	17	34	16	8.3	5.6
4	3.9	3.3	3.0	4.3	2.8	2.6	6.0	15	34	16	8.4	5.6
5	3.9	3.3	3.0	4.2	2.8	2.6	5.8	14	34	15	8.1	5.6
6	3.9	3.3	3.0	4.2	2.8	2.6	5.6	15	31	14	7.6	5.6
7	3.9	3.3	2.9	4.2	2.8	2.6	5.3	16	28	14	7.3	5.7
8	3.9	3.3	2.8	4.2	2.8	2.5	5.2	16	29	13	7.3	5.6
9	3.9	3.3	2.9	4.1	2.8	2.6	5.2	17	30	13	7.3	5.6
10	3.9	3.3	3.4	4.1	2.8	2.6	4.8	16	33	13	7.3	5.6
11	3.8	3.3	3.2	4.0	2.8	3.0	4.7	21	36	13	7.3	5.5
12	3.6	3.3	3.0	3.7	2.8	3.5	4.5	25	34	13	7.0	5.2
13	3.6	3.1	3.0	3.3	2.8	3.9	4.3	23	34	13	6.8	5.2
14	3.6	3.0	3.0	3.2	2.8	3.7	4.2	24	42	12	6.8	5.2
15	3.6	3.0	3.0	3.0	2.8	3.9	4.2	21	43	12	6.8	5.2
16	3.6	3.0	3.0	3.0	2.8	4.1	4.2	21	48	11	6.8	5.2
17	3.6	3.0	3.0	3.0	2.8	4.4	4.4	23	45	11	6.6	5.2
18	3.6	3.1	3.0	2.8	2.8	4.6	5.3	47	44	11	6.4	5.2
19	3.6	3.0	2.9	2.8	2.8	4.9	6.6	35	43	11	6.4	5.2
20	3.6	3.0	2.8	2.9	2.8	5.6	9.1	32	41	10	6.4	5.2
21	3.6	2.9	2.8	3.0	2.8	6.1	11	31	38	10	6.4	5.2
22	3.6	3.6	2.8	3.0	2.9	7.1	11	29	32	10	6.4	5.2
23	3.6	3.3	2.8	3.1	2.8	8.4	12	32	27	10	6.2	5.2
24	3.6	3.3	2.8	2.9	2.8	9.4	11	34	27	10	6.0	5.2
25	3.7	3.3	2.8	3.0	2.8	9.4	10	31	26	10	6.0	5.2
26	3.6	3.3	3.0	2.8	2.9	9.4	10	28	25	10	6.0	5.2
27	3.6	3.3	2.8	2.8	3.0	9.3	11	23	24	10	5.8	5.2
28	3.3	3.1	2.8	2.8	2.8	8.7	12	20	24	10	5.6	5.2
29	3.3	3.0	2.8	2.8	---	8.0	18	19	23	9.9	5.6	5.0
30	3.3	3.0	2.8	2.8	---	7.6	19	20	21	9.4	5.6	4.8
31	3.3	---	2.8	2.8	---	7.3	---	26	---	9.4	5.6	---
TOTAL	113.7	95.9	90.9	104.9	79.0	158.7	234.2	729	1001	375.7	211.4	159.8
MEAN	3.67	3.20	2.93	3.38	2.82	5.12	7.81	23.5	33.4	12.1	6.82	5.33
MAX	3.9	3.6	3.4	5.0	3.0	9.4	19	47	48	19	9.0	5.7
MIN	3.3	2.9	2.8	2.8	2.8	2.5	4.2	14	21	9.4	5.6	4.8
AC-FT	226	190	180	208	157	315	465	1450	1990	745	419	317

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

WY	MEAN	3.61	3.34	3.00	2.93	2.92	3.66	6.47	16.3	19.5	9.71	5.24	4.17
1984	MAX	7.59	6.57	5.79	5.61	5.84	7.13	12.0	40.1	46.0	24.6	12.6	9.54
1985	MIN	1.71	1.70	1.64	1.50	1.54	1.53	2.42	4.38	4.00	2.55	1.91	1.71
1991	AC-FT	226	190	180	208	157	315	465	1450	1990	745	419	317

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1964 - 1997

ANNUAL TOTAL	2676.2	3354.2	6.75
ANNUAL MEAN	7.31	9.19	14.9
HIGHEST ANNUAL MEAN			3.03
LOWEST ANNUAL MEAN			1.77
HIGHEST DAILY MEAN	34	Jun 6	84
LOWEST DAILY MEAN	2.8	Mar 14	Jan 1
ANNUAL SEVEN-DAY MINIMUM	2.8	Dec 19	5 1993
ANNUAL RUNOFF (AC-FT)	5310	6650	Dec 24 1990
10 PERCENT EXCEEDS	17	25	15
50 PERCENT EXCEEDS	4.2	5.2	3.8
90 PERCENT EXCEEDS	3.0	2.8	2.2

e Estimated